



European Conference of Transport Research Institutes

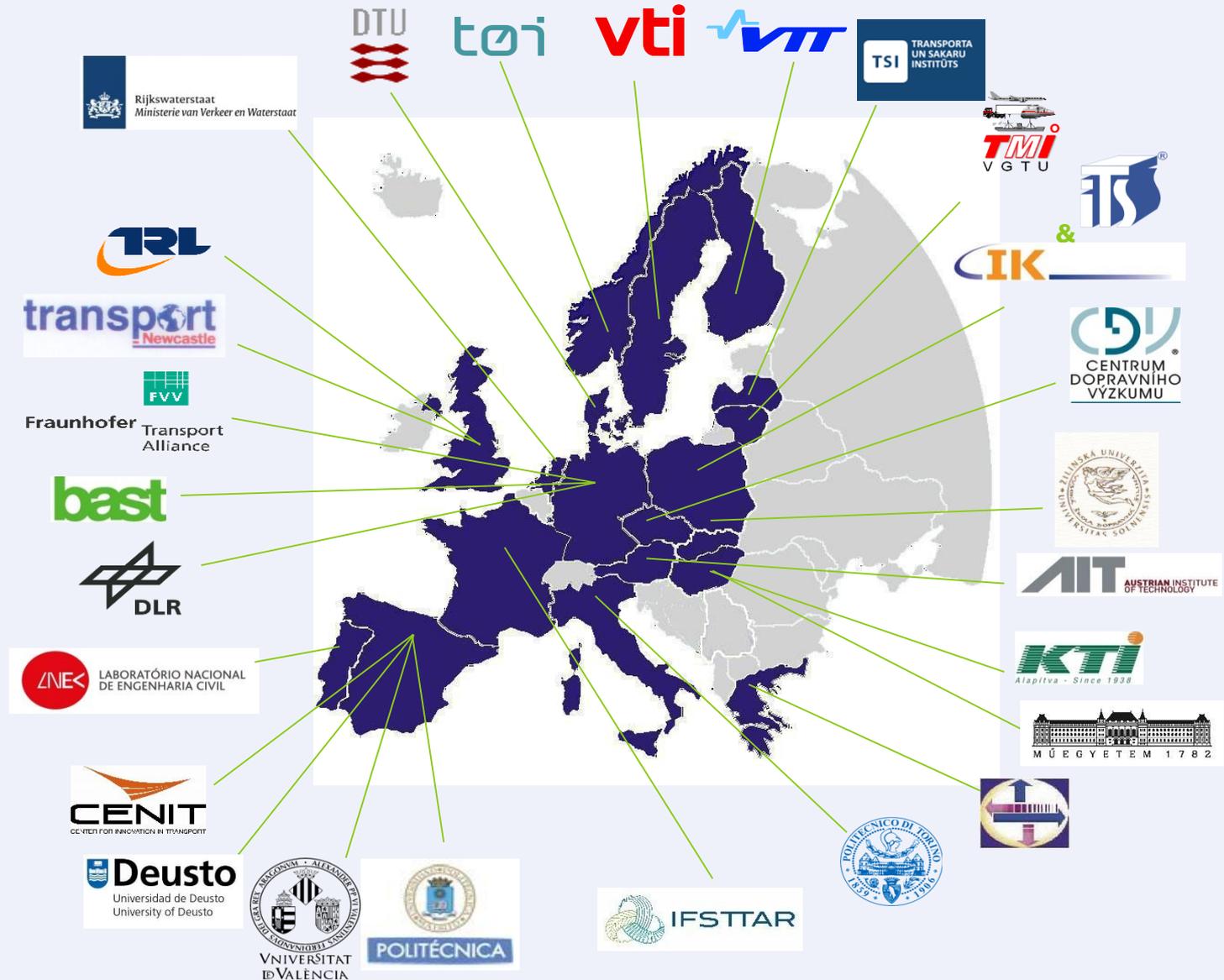
ECTRI and the Climate

Future needs for European Transport Research on
climate change issues

Paris, July 6th 2015

ECTRI Members

26 major transport research institutes or universities from 19 European countries



Early ECTRI involvement in CC and transport

- **2008 Areas requiring further research efforts remain largely valid:**
 - Develop best practices and methodologies for assessment of mitigation measures
 - Socio economic issues
 - Monitoring and pricing tools
 - Data harmonization (in the area of passenger transport)
 - Modelling, measurement and standardisation
 - Air transport issues
 - Breakthroughs including electrification
 - Adapting infrastructure to climate change
- **ECTRI members have for a long time put CC at the heart of its research activities**

Active involvement of ECTRI partners in CC-related research

- **2009 CC-related White Spots on Research:**
 - Characterization of airplane emissions
 - Battery-ultracapacitor association
 - Monitoring tools for energy related consumer behaviour
 - Assessment of mitigation measures
- **[This slide should probably be deleted, as there are not too many topics on CC, and they are quite specific for the discussion at the workshop]**

Active involvement of ECTRI partners in CC-related research

■ ECTRI members' participation in FP7 CC-related projects:

- 52 E&E projects in 2007-2013

■ Main CC projects:

- WEATHER “Weather Extremes: Assessment of impacts on Transport Systems and Hazards for European Regions”
- CATCH “Carbon aware travel choices in the climate-friendly world of tomorrow”
- ULYSSES “Ultra Slow Ships”
- DURABROADS “Cost-effective DURABLE ROADS by green optimized construction and maintenance”
- JOULES “Joint Operation for Ultra Low Emission Shipping”
- SOLUTIONS “Sharing Opportunities for Low Carbon Urban TRANSPORTION”
- MOWE-IT “Management of weather events in transport system”
- CAPACITY4RAIL “Increasing Capacity 4 Rail networks through enhanced infrastructure and optimised operations”
- EWENT “Extreme Weather impacts on European Networks of Transport”

Directions for future CC-related research

- **Four key CC research challenges ahead , based on ECTRI expertise and contributions:**
 1. **A focus on the socio-economic dimensions of low-carbon transitions and CC adaptation of European transport**
 - **And a multimodal, cross-cutting approach**
 2. **Collaborative planning practice and decision-making**
 - **Better integrating long-term CC (M&A) challenges**
 3. **Improved tools:**
 - **Developing robust assessment and monitoring tools for adaptation and mitigation actions**
 4. **Expanding cooperation accross disciplines:**
 - **Bridging the gap between the transport and the climate research communities**



More information

www.ectri.org

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